

Amendments to the Claims

1. (currently amended): A method for scheduling communication between a plurality of components in an integrated circuit (IC) coupled to at least one communication medium and at least one scheduling processor comprising the steps of:
initiating a transfer by said at least one scheduling processor sending a transfer command to a first IC component;
transferring data from said first IC component to a second IC component over said at least one communication medium;
said second IC component notifying a third IC component upon completion of said transferring data step;
wherein said transfer command to said first IC component identifies said second and said third IC components.
2. (currently amended): The method of claim 1 further comprising the steps of:
initiating another transfer by said at least one scheduling processor sending a transfer command to a fourth IC component;
transferring data from said fourth IC component to a fifth IC component;
said fifth IC component notifying a sixth IC component upon completion of said transferring data step;
wherein said transfer command to said fourth IC component identifies said fifth and said sixth IC components.
3. (previously presented): The method of claim 2 wherein said components include a microprocessor and said method further comprises the step of:
said microprocessor executing program code.

4. (currently amended): A method of controlling system operation between a plurality of components in an integrated circuit (IC) coupled to at least one communication medium and at least one scheduler comprising the steps of:
said scheduler sending a first command to a first IC component to transfer data over said at least one communication medium;
said at least one scheduler sending a second command to a second IC component to transfer data over said at least one communication medium;
notifying said second IC component upon completion of said first command;
initiating execution of said second command upon completion of said notifying step.
5. (previously presented): The method of claim 4 wherein said sending a first command and said sending a second command step can occur in any order.
6. (currently amended): The method of claim 5 wherein said method further comprises the step of:
said at least one scheduler deciding an order to send said first command and said second command and creating a chained sequence of transfers.
7. (currently amended): The method of claim 6 wherein said at least one scheduler includes a microprocessor and said method further comprises the step of:
said microprocessor executing a program.
8. (currently amended): A method of controlling system operation between a plurality of components in an integrated circuit (IC) coupled to at least one communication medium and at least one scheduler comprising the steps of:
receiving a first command from said scheduler by a first IC component to transfer data over said at least one communication medium;
receiving a second command from said scheduler by a second IC component to transfer data over said at least one communication medium;

performing said first command;
notifying said second IC component upon completion of said performing step; and
initiating said second command upon completion of said notifying step.

9. (previously presented): The method of claim 8 wherein said receiving a first command, said receiving a second command, and said performing steps can occur in any order.
10. (currently amended): The method of claim 9 further comprising the steps of:
sending said first command by said at least one scheduler; and
sending said second command by said at least one scheduler
11. (currently amended): The method of claim 10 wherein said at least one scheduler includes a microprocessor and said method further comprises the step of:
said microprocessor executing a program.
12. (currently amended): A method of controlling a system including a plurality of components in an integrated circuit (IC) coupled to at least one communication medium and at least one scheduler comprising the steps of:
said at least one scheduler receiving transfer requests from requesting IC components;
said at least one scheduler constructing a transfer command for each of said transfer requests;
said at least one scheduler sending said transfer commands to said requesting IC components;
wherein said transfer command further comprises;
(a) a destination address identifying a destination component; and
(b) a notification address identifying an acknowledge component.
13. (currently amended): The method of claim 12 wherein said at least one scheduler includes a microprocessor and said method further comprises the step of:

said microprocessor executing program code.

14-25. Cancelled

26. (currently amended): The method of claim 2 further comprising the steps of:
said at least one scheduling processor deciding an order to perform said transfers; and
creating a chained sequence of said transfers.
27. (currently amended): The method of claim 3 further comprising the steps of:
said at least one scheduling processor deciding an order to perform said transfers; and
creating a chained sequence of said transfers.
28. (currently amended): The method of claim 12 further comprising the steps of:
said at least one scheduling processor deciding an order to perform said transfers; and
creating a chained sequence of said transfers.
29. (previously presented): The method of claim 1 wherein:
said transfer command is communicated over a first medium; and
said transferring step is performed over a second medium.
30. (previously presented): The method of claim 4 wherein:
said step of sending a first command is communicated over a first medium; and
said step of sending a second command is communicated over a second medium.
31. (currently amended): The method of claim 4 further comprising the step of:
transferring data from said first IC component over a first medium; and
wherein said step of sending a first command is communicated over a second medium.
32. (previously presented): The method of claim 6 wherein:

said step of sending a first command is communicated over a first medium; and
said step of sending a second command is communicated over a second medium.

33. (currently amended): The method of claim 6 further comprising the step of:
transferring data from said first IC component over a first medium; and
wherein said step of sending a first command is communicated over a second medium.
34. (previously presented): The method of claim 8 wherein:
said first command is communicated over a first medium; and
said step of performing said first command is performed over a second medium.
35. (previously presented): The method of claim 10 wherein:
said first command is communicated over a first medium; and
said step of performing said first command is performed over a second medium.
36. (currently amended): The method of claim 12 further comprising the step of:
transferring data from said requesting IC components over a first medium; and
wherein said step of sending said transfer commands is performed over a second medium.
37. (currently amended): The method of claim 12 further comprising the step of:
transferring data from said requesting IC components over a first medium; and
wherein said step of sending said transfer commands is performed over a plurality of
second mediums.